

A Vertical Multiple Opening and Closing Plankton Sampler

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Abstract

The paper describes a vertical multiple opening and closing plankton sampler (ORI-VMPS) having four nets, 1m \times 1m in mouth opening and 510cm in length with accessories designed for sampling macrozooplankton. The ORI-VMPS is opened and closed at a desired depth by command relayed through a conducting cable. Depth of ORI-VMPS is monitored on a recorder. The towing from 2,000m depth requires about 90 minutes. Therefore, it is possible to collect more than ten time-series samples from the deep sea in a single day.